Computer Aided Drafting/Design ITAG: Documentation of Credential and Alignment

Credential	Autodesk Certified Associate in CAD for Mechanical Design	
	Autodesk Certified Professional in Inventor for Mechanical Design	
	Certified SOLIDWORKS Associate in Mechanical Design	
	Certified SOLIDWORKS Professional in Mechanical Design	
Credential	X Certification	
Туре:	□ License	
Issuer of	Autodesk; SOLIDWORKS	
Credential:		
Frequency of		
Updates:		
Exam(s)	Autodesk Certified Associate in CAD for Mechanical Design certification exam:	
Required:	https://www.autodesk.com/certification/all-certifications/cad-mechanical-design-	
	<u>associate</u>	
	Autodesk Certified Professional in Inventor for Mechanical Design certification exam:	
	https://www.autodesk.com/certification/all-certifications/inventor-mechanical-design-	
	<u>professional</u>	
	Certified SOLIDWORKS Associate in Mechanical Design:	
	https://www.solidworks.com/certifications/mechanical-design-cswa-mechanical-design	
	Certified SOLIDWORKS Professional in Mechanical Design:	
	https://www.solidworks.com/certifications/mechanical-design-cswp-mechanical-design	
Additional	N/A	
Requirements:		
Current	CTAG (CTMET005):	
CTAG/TAG:	https://www.ohiohighered.org/sites/default/files/uploads/transfer/CT2/Mechanical%2	
(if applicable)	OEngineering%20Technology%20CTAG.pdf	
	TAG (OET012):	
	https://www.ohiohighered.org/sites/ohiohighered.org/files/uploads/transfer/documen	
	ts/TAG/FINAL%20Learning%20Outcomes%20for%20CAD%20TAG%20Course%209-30-	
D	16.pdf	
Description of C	ontent to be evaluated and aligned:	
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How long after attainment can	3 Years	
credit be		
awarded?		
How can	Student must provide proof of certification.	
receiving	peadent mast provide proof of certification.	
institutions		
verify		
credential		
attainment?		

Course Name: Computer Aided Drafting/Design

Credit Hours: 3

Course Description: This course introduces the student to the fundamental concepts used in creating computer-generated drawings using a commercial CAD software. Topics include coordinate systems, construction, text insertion, editing techniques, views, projections, display control inquiry techniques, dimensioning and use of part libraries in the creating of drawings and assemblies. Bill of materials will be generated from multi-sheet assemblies. Students will develop 3D objects using primitive solids and Boolean operations. Learning outcomes are achieved through various in class and laboratory experiences.

Credential Content:	Credential Content:
Autodesk Certified Associate in CAD	Certified SolidWorks Associate;
for Mechanical Drawing; Autodesk	Certified SolidWorks Professional
Inventor Certified Professional in	
Inventor for Mechanical Design	
Draw and organize objects.	Sketching and Basic Features
Project setup	
Drawing and Modeling	
Technical detailed drawing creation	Drawings, assemblies, mates
BD component modeling	
BD assembly modeling and	
,	
	Drawings, assemblies, mates,
	reference geometry
Project setup	,
3D assembly modeling and	Drawings, assemblies, mates,
management	reference geometry
	Sketches, drawings, features,
2D accomply modeling and	assemblies, and mates
,	
management	
Advanced part modeling	
	Autodesk Certified Associate in CAD for Mechanical Drawing; Autodesk Inventor Certified Professional in Inventor for Mechanical Design Draw and organize objects. Project setup Drawing and Modeling Technical detailed drawing creation 3D component modeling 3D assembly modeling and management Draw and organize objects. Project setup 3D assembly modeling and management Assembly modeling and management Assembly modeling 3D component modeling